

Title (en)

Force-applying input device

Title (de)

Eingabeeinrichtung mit einer Vorrichtung zum Anlegen einer Kraft

Title (fr)

Dispositif d'entrée comprenant un dispositif pour appliquer une force

Publication

EP 1450231 A2 20040825 (EN)

Application

EP 04003500 A 20040217

Priority

JP 2003046286 A 20030224

Abstract (en)

A force-applying input device includes a mechanical section (1) including a tilting lever (1a); an operation section (2) mounted to an end of the tilting lever; first (3) and second (4) actuators which apply a force to the operation section through the tilting lever; first (5) and second (6) position sensors which detect operation amount and direction of the tilting lever; and a control section (7) which generates first (e) and second (f) drive signals of the first and second actuators by receiving first (a) and second (b) position signals output from the respective first and second position sensors. Based on the first and second position signals output from the position sensors, the control section computes the first and second drive signals of the first and second actuators in accordance with operation amount and direction of the operation section, and outputs first and second drive powers of the respective first and second actuators from first and second drive circuits.

IPC 1-7

G05G 9/047

IPC 8 full level

G05D 3/12 (2006.01); **G05G 9/047** (2006.01); **G06F 3/00** (2006.01); **G06F 3/01** (2006.01)

CPC (source: EP US)

G05G 9/047 (2013.01 - EP US); **G06F 3/016** (2013.01 - EP US); **G05G 2009/04718** (2013.01 - EP US); **G05G 2009/04766** (2013.01 - EP US)

Cited by

EP2068225A1; EP1770010A3; EP1770010A2; US8096206B2

Designated contracting state (EPC)

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EP 1450231 A2 20040825; **EP 1450231 A3 20060510**; **EP 1450231 B1 20080521**; DE 602004013856 D1 20080703; JP 2004258782 A 20040916; JP 4160843 B2 20081008; US 2004167642 A1 20040826; US 7245289 B2 20070717

DOCDB simple family (application)

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